



Inside the Star

• **Payload Operations Center goes 24/7, page 4**

• **Wellness Center groundbreaking Tuesday, page 5**

• **Friday marks anniversary of liquid-fuel rocket launch, page 5**

• **Centerwide safety rules explained, page 6**

Marshall Center to implement ISO 9001:2000 revision

The ISO 9001 Standard has recently been revised to ISO 9001:2000 version. Marshall is currently registered to the 1994 version and will be required to update to the new revision within three years.

The 2000 revision is considered only an enhancement and not a major revision. After preliminary evaluations, the new revision will have minimal impact to the Center. It will require some work mainly in Customer Satisfaction as well as Continual Improvement.

"I believe these are two areas that Marshall needs to work on," says Center

Director Art Stephenson. "Even before the 2000 revision came out, and before we knew the impacts, these were areas I had asked my staff to work on. I have seen great progress in some areas and others need to increase their effort."

Actions have already started for Marshall to implement the 2000 revision. Plans are in place to have a pre-assessment to the new revision — including full scope — in August and a Registration Audit in November of this year.

Detailed information will be forthcoming through your Marshall Management System organizational representative.

Part of X-37 program

First free-flight of Air Force X-40A test vehicle successful

The first of up to seven free-flight tests of the X-40A, an 85 percent scale version of NASA's X-37 technology demonstrator, was successfully conducted Wednesday at the Dryden Flight Research Center at Edwards, Calif.

NASA and its industry partner The Boeing Company are using the X-40A, on loan from the U.S. Air Force, as part of its risk mitigation activities for the X-37 program. It will help test the shape, guidance and other systems for the X-37. Flight objectives include validation of Computed Air Data Systems (CADS), which will be used in the flight control system of the X-37.

Other test points are: in-flight performance evaluation of the Honeywell SIGI Space Integrated Global Positioning System Inertial Navigation System; test of control room operations; and flight test of guidance, navigation and control software.

"These tests with the X-40A will provide us a great deal of valuable data applicable to the X-37," said Dick Cervisi, Boeing Phantom Works X-37 program manager. "Performing these tests will significantly reduce the risk to be encountered in the X-37 flight program."

For the Wednesday test, the X-40A was lifted by a U.S. Army Chinook helicopter to an altitude of 15,000 feet above ground level and released to glide to a runway landing, guided by on-board systems. The free-flight took approximately 75 seconds

from release to landing. The vehicle reached a velocity of up to about 200 miles per hour (168 knots).

Six captive-carry flights — when a vehicle is tethered to an aircraft but not released — of the X-40A by the Chinook helicopter have been conducted at Dryden. Each flight averaged one

See X-40A on page 3



Boeing photo

A Boeing worker puts the final touches on the X-40A to prepare it for testing at Dryden.

Celebrating women of courage and vision

by the President of the United States

In 1845, journalist and author Margaret Fuller laid out her hope for the future of this nation's women: "We would have every arbitrary barrier thrown down. We would have every path laid open to women as freely as to men. If you ask me what offices they may fill, I reply — any. I do not care what case you put; let them be sea captains, if you will."

More than 150 years later, we are closer than ever to realizing Margaret Fuller's dream. Women account for nearly half of all workers. Today, women are "captains" of their own destinies, and they will continue to help shape our nation's future. Women hold 74 seats in the U.S. Congress, more than at any time in our country's history, and women own more than 9 million businesses employing more than 27.5 million workers. Through their tireless service on a daily basis, the women of our nation have woven the fabric of families and communities. They contribute immeasurably through faith-based and community organizations.

Our nation's women could not be where they are — nor could our country be where it is — without the strength and courage, wisdom and persistence of those who preceded them. America has been blessed with women like Harriet Beecher Stowe, Susan B. Anthony and Jane Addams, all of whom refused to accept oppression as inevitable. Female political leaders including Margaret Chase Smith and Eleanor Roosevelt forever changed the face of American government. Women have played a vital role in educating our

NASA Administrator applauds women's accomplishments

March 2001 is National Women's History Month. Let's show appreciation for women's historic and contemporary contributions to our nation.

The theme for 2001 is "Celebrating Women of Courage and Vision." This theme emphasizes the joy in recognizing and celebrating the diverse and historic accomplishments of women.

By honoring women of courage and vision, we set a standard for ourselves and provide a beacon of inspiration for future generations. At NASA, we are proud of the courage

and vision of our women astronauts, scientists and engineers in their scientific exploration, as well as our women in other fields of endeavor. We pause during Women's History Month to recognize and honor their accomplishments.

In keeping with the established NASA tradition, I encourage you to celebrate the accomplishments of women and participate in the planned programs and activities at Headquarters, your Centers and within your community.

— *Dan Goldin*

nation: Mary Lyon, Dorothea Dix, Elizabeth Blackwell and Mary McLeod Bethune all fought history and stereotypes to become scholars in their own right and pass their knowledge to subsequent generations. Similarly, female authors such as Ann Bradstreet, Emily Dickinson, Pearl Buck and Zora Neale Hurston represent only a small sample of the many women who have contributed to the American literary canon.

Our nation boasts a rich history of women whose heroic achievements speak to the sense of excellence, potential and patriotism shared by all Americans. Anna Warner Bailey's and Clara Barton's

courage in war has inspired generations of men and women called upon to fight for America. The fortitude of spirit displayed by Helen Keller, Amelia Earhart and Wilma Rudolph has made

them role models both here and abroad. Finally, from the sacrifice of mothers and grandmothers to the dedication of successful women in business, government and charitable work, the legacy of women in America gives all young people in this country the impetus to dream without limits.

NOW, THEREFORE, I, GEORGE W. BUSH, president of the United States of America, by virtue of the authority vested in me by the Constitution and laws of the United States, do hereby proclaim March 2001 as "Women's History Month." I call upon all the people of the United States to observe this month with appropriate ceremonies and activities and to remember their contributions throughout the year.

IN WITNESS WHEREOF, I have hereunto set my hand this first day of March, in the year of our Lord two thousand one, and of the Independence of the United States of America, the two hundred and twenty-fifth.

— *George W. Bush*

Redstone hosts women's program March 22

This year's theme for Women's History Month is "Celebrating Women of Courage and Vision." A Women's History Celebration will be held 2-4 p.m. March 22 in Bob Jones Auditorium at the Sparkman Center. Marian Guidry, a program analyst with Apache Project Office, will speak. For more information, call 876-8648.

X-40A

Continued from page 1

hour and 40 minutes, at an elevation of 15,000 feet (about 4.6 kilometers) and speed of 108 miles per hour (about 90 knots). Those flights validated the functionality and performance of the X-40A's guidance, navigation and control systems, air-data and telemetry.

The X-40A test vehicle was built for the Air Force by The Boeing Company at its Seal Beach, Calif., facility. It has a fuselage length of 22 feet (about 6.7 meters), a wing span of 12 feet (about 3.65 meters) and weighs about 2,600 pounds (about 1179 kilograms). It was flight tested once before, in August 1998 at Holloman Air Force Base in southern New Mexico, for the Air Force's Space Maneuver Vehicle program.

Although Boeing performed a number of modifications to the X-40A in preparation for the current tests, including improved instrumentation and telemetry, a new integrated inertial navigation system/global positioning system (INS/GPS) payload, upgraded power systems and additional redundancy for range safety, the flight control system remains single string. Inherently, a single string system is not as reliable as the fault-tolerant system planned for the X-37.

The X-37, managed for NASA by the Marshall Center, is designed to demonstrate technologies in the orbital and reentry environments for next-generation reusable launch vehicles that will increase both safety and reliability, while reducing launch costs from \$10,000 per pound to \$1,000 per pound.

The X-37, carried into orbit by the Space Shuttle, is planned to fly two orbital missions beginning in 2003.

★ ★ ★
Marshall Stars
★ ★ ★

Walter Hammond named AIAA associate fellow

Dr. Walter E. Hammond, of Pace & Waite Inc. of Huntsville, was recently named an associate fellow by the American Institute of Aeronautics and Astronautics (AIAA).

Hammond is a senior engineer working on the configuration management contract that supports the Microgravity Science and Applications Department of Marshall's Science Directorate.



Hammond

Associate fellows have accomplished or been in charge of important engineering or scientific work, or have done work of outstanding merit or have otherwise made outstanding contributions to the arts, sciences or technology of aeronautics or astronautics. Nominees must be AIAA senior members and have at least 12 years of professional experience.

Letters

Appreciation from the United Way

On behalf of United Way of Madison County, we would like to thank the many federal employees who so generously designated their 2000 Combined Federal Campaign contributions to United Way. Without your support, our local agencies could not meet the many needs within our communities. Your dollars will significantly impact services such as:

- The enhancement of children's developmental skills through our "Success By 6" program
- Continuing care for terminally ill and bereavement support for families
- Ensuring that the homebound will remain independent within their own homes
- Disaster services, and many more.

United Way of Madison County is looking for dedicated community-involved volunteers to serve on a number of committees such as allocation determinations and management reviews, to mention a few. We would also like the opportunity

to tell you about our many services in any employee forums available. We can be reached at 536-0745.

John Hawkins

President, United Way of Madison County

Thanks from Community Health Charities

Please accept my sincere appreciation for your generous support during your Combined Federal Campaign. These funds will assist in the continuation of needed health programs in the Huntsville community, as well as supporting research at Alabama Medical Centers.

Patient and community services include financial assistance, orthopedic appliances, clinics, counseling, screening, self-help programs, medical treatment, support groups and summer camps.

If you wish more information on a specific agency, call (205) 822-4409, or send an e-mail to chca@mindspring.com

Margaret Jean Daniel

Executive Director, Community Health Charities of Alabama Inc.

Storage space critical issue; Bldg. 8025 warehouse closing

The Center Operations Directorate is in the midst of an aggressive campaign to consolidate, streamline and modernize warehousing operations at Marshall.

The first phase is to eliminate unsafe facilities. One older building, Warehouse 8025, has been condemned. The building is set to be vacated May 1.

For directorates, programs or offices that have items stored in Bldg. 8025, you may excess items for reutilization or disposal using the service request system at: <http://srs.msfc.nasa.gov/catalog/bin/home.asp>

Or you may select another storage location from the on-site warehouses,

including Bldgs. 7204, 7205, 7215, and 8023, which are available for dry storage with no heating or air conditioning.

Intergraph Bldg. 21 is available for climate-controlled storage and is heated and air-conditioned. This off-site building has been temporarily leased by Marshall through Sept. 30, with two one-year options. Items with a profile exceeding 8 feet by 8 feet cannot be stored there.

As part of the effort to achieve full-cost



accounting, a fee will soon be charged of \$3.83 per square feet occupied for on-site warehouse space, and a fee of \$4.50 per square feet occupied for off-site warehouse space.

Items not declared excess and remaining in Bldg. 8025 on April 2 will be moved to one of the above locations, as decided by the Logistics Services Department. Notices identifying the new storage location for remaining property will be mailed to property owners after the items are relocated.

If you have questions on warehouse storage, call Robbie Saint at 544-9618. For questions on property disposal, contact Disposal Operations at 544-2536.

Payload Operations Center supports around-the-clock

The Payload Operations Center at the Marshall Center began around-the-clock support of International Space Station science operations March 8 with the launch of Space Shuttle Discovery and the station's Expedition Two crew.

For up-to-date status reports from the Payload Operations Center, visit the Web at: <http://www.scipoc.msfc.nasa.gov>

The Center's Shuttle Operations Coordinator (SOC) will monitor the progress of payloads as astronauts transfer them to the station from the Shuttle middeck and the Marshall-managed Multi-Purpose Logistics Module Leonardo, a "moving van" for payloads that is making its first flight. The SOC is responsible for station payloads during ascent, docked operations and landing. The SOC also serves as the interface between the Payload Operations Center and Shuttle Mission Control Center in Houston.

Among the payloads being transferred to the station is the Human Research Facility, the station's first full science rack. The facility, slightly larger than a refrigerator, supports a variety of experiments dedicated to studying how space flight affects human physiology. The crew and ground controllers will activate and check it out during the five-month Expedition.

The Human Research Facility rack was built at the Marshall Center, and then outfitted with life sciences research equipment at the Johnson Space Center in Houston, Texas. The Human Research Facility is a modified EXPedite the PROcessing of Experiments to the Space Station rack — called an EXPRESS rack.

The Marshall Center and The Boeing Company are building a



Photo by Doug Stoffer, NASA/Marshall Space Flight Center

At console, Ola Germash, and, from left, Brian Little, Aris Tanone and Tom Hushka monitor science payload activity onboard the International Space Station from the Payload Operations Center at Marshall.

total of eight EXPRESS racks for the Space Station. The second Human Research Facility rack is currently under construction at Marshall.

Two more EXPRESS racks will be delivered during the next Space Shuttle mission, STS-100, set for mid-April. EXPRESS experiments are controlled by the Station crew, or by the Payload Developer from their home institution, or by the Payload Rack Officer on duty at the Marshall Center Payload Operations Center.

Other science payloads on the Shuttle scheduled for transfer to the Station include radiation detectors — Bonner Ball Neutron Detector and the Dosimetric Mapping experiment, and the Hoffmann Reflex neurological experiment.

Friday marks 75th anniversary of first liquid-fueled rocket launch

When the Space Shuttle's three main engines thundered to life last week during the launch of

Discovery, their roar not only marked astronauts once again venturing into space, but also trumpeted a salute to the man whose vision made such a journey possible.

Seventy-five years ago, March 16, 1926, Dr. Robert H. Goddard successfully launched the first liquid-fueled rocket.

"That flight became the underpinning of everything that we are able to do in space today, and which we take for granted," said William Townsend, deputy director of the NASA facility named after the rocket pioneer, the Goddard Space Flight Center in Greenbelt, Md. "Dr. Goddard was a true visionary, having already visualized flight in outer space by the time he was 21 (1903). He was also persistent, since it took him until 1926 to achieve the monumental accomplishment embodied in that first flight some 75 years ago."

"Many people date the beginning of the space age from the launch of Sputnik 1 on Oct. 4, 1957. One could also say that it really began when Robert Goddard successfully launched the first liquid-fueled rocket," added Chief Historian Dr. Roger Launius of NASA Headquarters in Washington, D.C. "Liquid-fueled rockets are what makes it possible to reach the high frontier of space, and Goddard recognized before virtually anyone else that developing that technology was critical to exploring it."

Goddard's 10-foot long rocket utilized gasoline and liquid oxygen for its flight. While his creation weighed only 10 1/2



File photo

Goddard, left, and colleagues check out the liquid-fuel rocket in his workshop.

pounds (4.5 kg), including fuel, and flew just over 40 feet (12 m) in altitude, it utilized the same basic technology that would later allow the 6 million-pound Saturn V rocket to carry humans 239,000 miles (384,000 km) to the Moon.

In addition to the Space Shuttle, most unmanned rockets that deliver spacecraft and satellites to Earth orbit or to the paths of their inter-planetary expeditions utilize a liquid propulsion system.

The successful use of a liquid-fuel propulsion system was one of Goddard's many significant achievements. During his lifetime, he designed, built and launched 35 rockets of increasing sophistication. Goddard improved his sounding rockets' designs, developing turbo-pump systems; gyro-stabilization; aerodynamic and jet-deflector flight controls; automatic sequencing launch systems; flight trajectory tracking and recording devices; gimbal-mounted clustered rocket motors; and parachute recovery systems.

For more information, visit the Web at: <http://www.gsfc.nasa.gov/75th/75th.htm>

Wellness Center groundbreaking ceremony Tuesday

A ceremonial groundbreaking ceremony at the intersection of Digney and Morris roads will be held at 1 p.m. to recognize the recent construction start for Marshall's new Wellness Center. Everyone is invited to attend the groundbreaking and view the Wellness Center master plan.

Construction is expected to be completed in late July. AJT and Associates performed the design of the new facility, and the construction contractor is Tennessee Valley Contractors Inc.

When it's finished, the new facility will be able to accommodate NASA civil servants and contractors. The Bldg. 4752 fitness center will be converted for warehouse space and high bays.

The new health and fitness center will be two fabric structures that Marshall's Facilities Utilization Review Board purchased last spring in time for the Turning Goals into Reality conference and Marshall's Open House.

The new facility will provide nearly 32,000 square feet of space. Each structure is approximately 95 feet wide and 150 feet long. They are ideally suited for health fitness activities and are designed to withstand 35 pounds of snow per square foot and 90 mph winds. A protective area is being constructed in the connecting concrete block building to provide additional protection in the event of severe weather. Parking will be provided for 166 cars.

The complex will house basketball and racquetball courts, an aerobic room, cardiovascular theater, circuit training and weight lifting stations, offices, two neuromuscular therapists, a physical therapist, and shower and locker facilities. Possible future additions include walking/jogging trails, softball and football fields, a tennis court and a picnic area.

Centerwide safety rules help ensure safety of all employees

from the Safety Office

If everyone follows certain basic rules, safety is ensured for everyone. Marshall's Safety Office has issued the following site-wide safety rules for employees:

Every employee:

- Has "safety halt authority" to stop any operation if an unsafe act or condition exists. Once implemented, immediately notify the area supervisor and explain the reason for halting the operation.
 - Shall report all safety and health problems, close calls and mishaps to their supervisor.
 - Shall report all fires immediately.
 - Shall correct hazards immediately or secure and mark them to prevent injury or damage.
 - Shall move to a designated secure area immediately after being notified (emergency warning system, fire alarm or other alarm system).
 - Shall remove loose objects or other tripping hazards from floors immediately. Clean liquid spills from floor immediately or highlight by safety cones or signs.
 - Shall keep walkways, fire exits, means of egress and hallways free of boxes, file cabinets and excess furniture.
 - Shall close desk or file drawers when not in use and not open more than one drawer of a file cabinet at a time.
 - Shall, when going up or down stairs, walk to the right, one step at a time and use handrails.
 - Shall use only approved ladders, scaffolds or step-stands to reach items stored overhead or out of reach.
 - Shall use proper manual lifting techniques and limit lifts to personal physical capabilities, but in no case more than 40 pounds. Seek assistance from another employee when the item is greater than 40 pounds or too bulky to handle (do not exceed 40 pounds per employee.)
 - Shall store hazardous chemicals/materials only in approved cabinets/areas.
 - Shall drive the posted speed limit and give right-of-way to pedestrians.
 - Shall wear seat belts in all vehicles while at the Marshall Center.
 - Shall not leave a vehicle running while unattended.
 - Shall walk on sidewalks and/or marked paths, if available.
 - Shall walk (not run) in buildings, parking lots or sidewalks.
- Running is allowed only in designated exercise areas.
- Shall turn off coffee makers and heat-producing appliances at the end of the shift.
 - Shall avoid cleaning areas/items contaminated with blood. Only personnel who have completed the bloodborne pathogens course shall clean areas/items contaminated with blood.
 - Shall not feed wild animals.

Supervisors and managers:

- Ensure Marshall Form 596, "Emergency Telephone Numbers," is posted on all telephones in their area.
- Shall define and post housekeeping guidelines in their area of responsibility for employees.
- Shall communicate to their employees what is acceptable or unacceptable concerning the way the facility or office is maintained, from a housekeeping standpoint.
- Shall look for housekeeping problems as part of their daily routine.

Eligibility to use Marshall Medical Center explained

from the Medical Center

Contract personnel are authorized to visit the Medical Center when they experience any work-related injury or illness or for a scheduled physical examination. Contractors who have potential adverse exposures on-the-job are provided physical exams tailored to their work environment. Those potential exposures include radiation, lasers, chemicals, asbestos, noise, lead or mercury, and include occupations such as food handler, security guard, heavy equipment operator or pilot.

Contractors should not report to the Marshall Medical Center for injuries suffered off the job or when an illness is not work-related, such as colds, flu, etc.

Civil service personnel should report to the Medical Center when they experience any work-related injury or illness or for immediate attention for minor illnesses or injuries.

Normally, patients will be given an initial dose of medication and a prescription for the rest of the required medication, when indicated. If appropriate, a patient will be advised to seek help from his or her private physician for continuing monitoring and/or follow-up.

Civil service personnel also should report to the Medical Center when a physical examination appointment has been scheduled. Civil service personnel may be scheduled for a physical under one of two categories: a periodic/voluntary examination or a monitoring/mandatory examination based on potential work exposures.

For medical emergencies, anyone can summon an ambulance by dialing 911.

Training

Project Leadership Program

A five-day agency program that goes beyond project management tools and techniques by integrating management tasks and processes will be held April 2-6. Participants receive hands-on experience using a computer simulation to build a thorough project plan and then implement the plan in a realistic environment. The program also enables participants to practice and improve interpersonal and team behaviors. A more detailed description of this program can be found on the Web at: appl.nasa.gov. To attend, forward a Marshall Form 4280 to CD20/Renee Higgins by close of business March 23. For more information, call 544-8864.

Communication skills for women

High-Impact Communications Skills for Women will be from 9 a.m.-4 p.m. March 29, in Bldg. 4200, room G-13E. Register through AdminSTAR. The course is limited to 35 participants.

Center Announcements

Blood drive

The American Red Cross will hold its monthly blood drive from 8 a.m.-1:30 p.m. at Bldg. 4752. All blood types are urgently needed.

Trike-A-Thon

The Marshall Child Development Center is hosting "Bring A Bike Day" Trike-A-Thon for one week beginning Monday. This event will promote bicycle safety while raising money for childhood cancer research at St. Jude's Research Hospital in Memphis, Tenn. Lack of training is the most frequent contributing cause of bicycle accidents. The Trike-A-Thon teaches riding safety tips using coloring sheets, stories and riding activities. Parents support the program by collecting tax-deductible donations to sponsor their child. For more information, call Kelli Brott at (256) 544-8609.

Great Moonbuggy Race

Volunteers are needed for morning and afternoon shifts April 6 and 7 to support the Great Moonbuggy Race at the U.S. Space & Rocket Center. There are 55 teams from 20 states and Puerto Rico entered in the race. Marshall personnel should enter through the red gate next to the Space Camp location. To volunteer, call Joel Farbman at 544-2319.

Annual retiree dinner

Friday is the last day to purchase tickets to the 15th annual Marshall retiree dinner at 5:30 p.m. March 22 at the Von Braun Center. All employees, retirees and guests are invited to attend. Tickets are \$16 each and are available from administrative officers. To reserve a table, call your administrative officer or Patricia Caraway at 544-7524.

Spot an environmentalist

The "Spot-an-Environmentalist" activity encourages Marshall employees and on-site contractors to keep Marshall environmentally friendly and rewards them. Submit an employee's

name and a short justification of the deed via e-mail to: lucy.boger@msfc.nasa.gov or mail to AD21, Bldg. 4250, room 16B, no later than March 30. Winners will receive a Wild Birds Unlimited gift certificate to be presented at the Earth Day tree planting ceremony at 10 a.m., April 19, on the north side of Bldg. 4619. In case of inclement weather, Earth Day activities will be held in Morris Auditorium, same date and time.

Clubs and Meetings

Shuttle Buddies

The Shuttle Buddies will meet for breakfast at 9 a.m. March 26 at Mullins Restaurant on Andrew Jackson Way. For more information, call Deemer Self at 881-7757 or Gail Wynn at 852-8189.

Genealogical Society meets

The Huntsville Genealogical Computing Society will meet at 7 p.m. March 19 in the Huntsville-Madison County Main Library auditorium. Brenda Webb, director of the City of Huntsville Cemeteries, will discuss Huntsville's Historic Maple Hill Cemetery.

Labview users

Labview users group will meet at 11:30 a.m. March 22 in Bldg. 4203, room 2004. RSVP to Derek Mayer.

Miscellaneous

Free boating safety class

Free boating safety and seamanship classes are being held on an ongoing basis until November. For information, call Tom Kunhart at 885-7096 or 830-6621.

Golf benefit

Computer Sciences Corp. is sponsoring the second annual Golf Benefit for the Association for Retarded Citizens April 20 at the Redstone Golf Course. The entry fee of \$65 includes golf, cart,

range balls, shirt and lunch. Prizes will be awarded for hole-in-one, closest to the pin, longest drive for men and women and more. For more information, call Amanda Lemaster at 539-2266 or Lana Cowan at 544-8195.

NASA Exchange

NASA goes to the Stars

The NASA Exchange is sponsoring the Huntsville Stars' opening night game against West Tennessee Diamond Jaxx at 7:05 p.m. April 13 at Joe Davis Stadium in Huntsville. Free tickets will be available to all Marshall team members and families prior to the game.

Health and Fitness Center

Please be considerate of other employees in the locker rooms at Marshall's Health and Fitness Center. Place clothing and other personal items in lockers or bags, away from the dressing area. This allows other employees coming into the dressing area a place to sit down and change their clothing and shoes.

Easter Egg hunt

Volunteers are needed for the annual NASA Exchange-sponsored Easter Egg hunt at 2 p.m. March 31. For information, call Gena Marsh at 544-0160.

Sports

Fishing club results

Results of the MARS Fishing Club Tournament at Goose Pond Colony on March 3 are as follows: Joe Glover and Alex Rawleigh got first place with five fish totaling 15.5 lbs.; Don McQueen and Rick Phillips got second place with three fish totaling 8.18 lbs.; and Charles Cothran and Ken Anthony got third place with two fish totaling 5.86 lbs. Big fish honors went to Don McQueen at 3.68 lbs. The next tournament is at Elk River on March 17. For information, call Don McQueen at 544-9073.

Employee Ads

Miscellaneous

- ★ Tool box for small pick-up, painted primer, \$35. 881-9426
- ★ Large desk, \$50; entertainment stand, \$20; sofa, sleeper, \$125; queen quilt, new, \$50. 534-0939
- ★ Astra 2200 scanner, USB/SCSI, \$130; car cell phone, \$25; office chair, \$30. 534-0939
- ★ 1991 Yamaha FZR1000 motorcycle w/ service manual and tank bra, one-owner, \$3,500. 772-4294
- ★ Coffee table, teak w/inlaid tile, \$100 obo. 751-2460
- ★ Vermont Castings Defiant Encore wood-burning stove, gray w/five sections matching pipe, T-adaptor, flue flex, outside air adaptor, \$800. 881-0533
- ★ Solid oak daybed w/twin mattress, \$125. 420-2901
- ★ Black dinette set, table & 4-bamboo wicker chairs, \$80 obo. 534-393 after 6 p.m.
- ★ Dual king electric beds, remote control and massage, approx. 1 year old. \$1,000. 881-3353
- ★ Queen headboard, mattress/box springs, dresser w/mirror, 7-drawer chest, night stand, \$700. 464-6933
- ★ Mobile home, 12x65, large covered front porch, small covered back porch, partly furnished, \$3,500. 256-498-2028
- ★ 1989 Wellcraft 192 Classic, cuddy cabin, 4.3L V-6, Mercruiser, no trailer, dry-stored for life, \$6,999. 797-6173
- ★ Remington 12-gauge pump shotgun, Model 10, \$235. 883-0686
- ★ Monkey grass (Liriope), solid green leaves, \$.50 each plant. 539-8976
- ★ Four tickets to Talladega 500, April 22, face value \$220. 883-1874 after 5 p.m.
- ★ Spring Air First Quality queen-size mattress set, four months old, \$425. 883-2237
- ★ 1997 Coleman pop-up camper, two-king beds, hot water, awning, two stoves, electric brakes, toilet & 3-way refrigerator, \$5,900. 852-0142
- ★ Fence, 200', pressure-treated wood, 48" high, Gothic top, 8' sections, 4x4 posts, 2 gates, \$200. 880-3263
- ★ Yamaha 80 4-wheeler, \$999; Honda EX1000 portable generator, 60 lbs., \$699. 881-7000
- ★ Older Model Golden Ram, 2-SW, new grips, putter, Sunday bag, \$150; Adams Tight-Lie Titanium driver, 9deg., \$190. 828-0801
- ★ Two Ericsson DH318 cell phones; six batteries, regular, rapid, and car chargers, \$100. 883-2125
- ★ Snapper riding mower, 8HP, \$500; microwave, \$50; Denon AVR2500 stereo receiver, \$300. 461-6337
- ★ 1998 Fleetwood Sea Pine camper, 13,000 BTU ac, refrigerator, awning, extras, sleeps 6-8, \$5,500. 653-3625
- ★ EchoStar DSS 500 dish network system, as is w/no warranties, \$50. 682-5181
- ★ Bicycle, hybrid, Trek Millennia, men's, \$250; Graber Guardian 2, 2-bike car rack, \$40. 882-3983
- ★ Two go-carts, 5HP engines, single seaters, \$300 and \$250; \$500 for both. 837-1405
- ★ Table-tennis table, 5'x9', folds up, net, 4-paddles; \$60, croquet set, 6-player, \$40; two fishing rods/reels, \$20 each. 772-0558
- ★ Fast Ethernet PC card, 10/100 Mbps, \$45 obo. John/721-8770 after 5:30 p.m.
- ★ Oak/veneer entertainment center for TV/ stereo, storage/book shelves, glass doors w/ lights, \$300; Maytag refrigerator w/ice maker, white, make offer. 658-5855
- ★ Twin bunk beds w/Bunkie boards, 2-drawer nightstand, 6-drawer dresser, walnut stained, \$150 obo. 533-0444

Vehicles

- ★ 2000 Acura, 3.2 TL, 27K miles, \$27,000. 828-2853
- ★ 1995 GMC 1500, short bed, V-8, 5-speed/ manual, toolbox, tilt/cruise, new tires, am/ fm/cassette, \$6,950 firm. 256-753-2278
- ★ 1990 Dodge Ram van, customized, TV/ VCR hookups, 176K miles, \$2,250. 256-753-2083
- ★ 1997 Buick Park Avenue, white, all-power, 48K miles, one-owner; 2000 LT Tahoe, gold, automatic, one-owner, 8,400 miles. 837-5113
- ★ 1995 Honda LX Civic, 4-door coupe, 65K

miles, power-package, new tires, \$8,000 obo. 774-2830

- ★ 1998 Ford Expedition, Eddie Bauer, white/ beige interior, \$23,500. 890-0797
- ★ 1997 Buick Riviera, V-6, supercharged, automatic, leather interior, \$14,999.00 obo. 837-4846
- ★ 1979 Chevy pickup, 95K miles, tool box, good tires, 8' bed, automatic, \$1,750. 650-0677
- ★ 1989 SeaRay 180BR, 4.3L V-6, garage kept, \$6,000. 859-3373
- ★ 1998 Honda Civic LX sedan, automatic, PW/PDLs, cruise, silver, new tires, 47K miles, \$9,999. 230-6846
- ★ 1992 Buick LeSabre Limited, 4-door sedan, leather, automatic, silver, \$5,500. 353-5358
- ★ 1993 Dodge Grand Caravan SE, one-owner, many new parts, service records available, \$5,000 obo. 895-9520
- ★ 1996 Chrysler Town & Country van, new tires, 74K miles, green/tan leather, quad captain chairs, rear a/c, \$14,000. 508-7493
- ★ 1999 Honda Shadow ACE Dix motorcycle, 7,800 miles, black & chrome, extras, \$5,000. 355-1353

Wanted

- ★ Dog house and/or dog cage. 971-0048

Free

- ★ Boxer dog, healthy adult male, tail/ears done, good w/children, fenced yard required. 420-8101
- ★ Black and white long-haired cat to good home. 882-0271
- ★ Firewood, seasoned hickory logs, stock up now, pick up in Grant, Ala. 256-582-1625
- ★ To good home, Golden Retriever, purebred, nurtured, good w/children, loves outdoors. 379-2020

MARSHALL STAR

Vol. 41/No. 26

Marshall Space Flight Center, Alabama 35812
(256) 544-0030
<http://www1.msfc.nasa.gov>

The Marshall Star is published every Thursday by the Internal Relations and Communications Department at the George C. Marshall Space Flight Center, National Aeronautics and Space Administration. Contributions should be submitted no later than Monday noon to the Marshall Internal Relations and Communications Department (CD40), Bldg. 4200, room 101. Submissions should be written legibly and include the originator's name. Send electronic mail submissions to: intercom@msfc.nasa.gov The Marshall Star does not publish commercial advertising of any kind.

Manager of Internal Relations
and Communications — Robert Champion
Editor — Debra Valine

U.S. Government Printing Office 2001-633-095-20039

PRE-SORT STANDARD
Postage & Fees PAID
NASA
Permit No. G-27